

*Pst*I HCAYYY region CA HCA
5' - GGAAACAAATTGAACATCATTCTATCAATACAACACAAACACAACACAACACTCAATCA
acgtCCTTTGTTTTAACTTGTAGTAAGATAGTTATGTTGTGTTTGTGTTGTGTTGAGTTAGT

YYY Nco I Xba I Sac I
TTTATTTGACAACACAACATAAACAACC**ATGGT**CTAGagct-3'
AAATAAACTGTTGTGTTGATTTGTTGGTACCAGATC

Figure 3.

5'

← actin-1 rice → ← ubiquitin-1 corn →

ACCACCACCACCACCACCACCTCCTCCTTCACACAACACACACACAACAGATCTCCCCATCCT

← IVS2 → Bgl II

CCCTCCCGTCGCGCCGCGCAACACCTGgtaagatggctgtgctgcgctcagatatatatagtgatat

← ubiquitin-1 corn →

gcactacaaagatcataactagaccgcgcctccccccccccccctctctaccttctctcttct

tttctccgtttttttttttccgtctcgtctcgatctttggccttggtagtttgggggagagaggc

ggcttcgctcgcccagatcggtgcgcgtttttttttttggaggggaggatctcgcggtgggtc

← actin-1 rice →

tcggcgtgcggccggattctcgcggggaatggggctctcggatgtggatctgatccgccgttgt

tgggggagatatggggcggtttaaaatttcgccatgctaacaagatcaggaagaggggaaaagg

gcactatggtttaatttttatatatattctgtgctgctcgtcaggattagatgtgcttgatctt

tctttcttctttttgtgggtagaatttgaaatccctcagcattgttcacggtagtttttctttt

← ubiquitin-1 corn → ← IVS2 →

gtcgatgctcaccctgttgtttgggtgtttttatactagtggtatcctgacacgggtctctttgt

← Spe I →

caaatatctctgtgtgcagGTATAACTGCAGGAAACAACAATAACCATGG

← Pst I → ← Nco I → 3'

Figure 4.

box TATA transcription start
ctatatataggaagttcatttcatttggagcccccaaccctACCACCACCACCACCACCACCT
EXON
CCTCCTTCACACAACACACACAACAGATCTCCCCATCCTCCCTCCCGTCGCGCCGCGCAAC
Bgl II
ACCTGgtaagatggctgtgcgctcagatatatatagtgatatgcactacaaagatcataactag
intron
accgcgcctccccccccccccctctctaccttctctctttctttctcgcgtttttttttttccgt
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Spe I
TAACTGCAGGAAACAAATTGAACATCATTCTATCAATACAACACAAACACAACACAACACTCAATC
Pst I EUREKA
ATTTATTTGACAACACAACAAACCAATGGTCTAGAGCTC
Nco I Xba I Sac I

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Figure 5.

ATCCATAGCAAGCCCAGCCCAACCCAACCCAACCCAACCCACCCCAGTGCAGCCAACCTGGCAAA
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AAAAAAAAAAGAAAGAAAAAAAAAAGAAAAAGAAAAACAGCAGGTGGGTCCGGTCTGTGGGGGCC
GGAAAAGCGAGGAGGATCGCGAGCAGCGACGAGGCCGGCCCTCCCTCCGCTTCCAAAGAAACGC
NruI
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CCACCACCACCTCCTCCTTCACACAACACACACACAACAGATCTCCCCATCCTCCCTCCCGTC
BglII
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SpeI
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PstI
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Nco I Xba I Sac I

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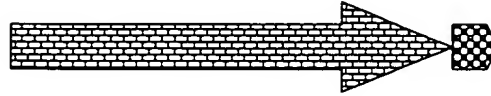
Figure 6.

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CTTTTTTTTTTGCAAATAGCTTCACCTATATAATACTTCATCCATTTTATTAGTACATCCATTTA
GGGTTTAGGGTTAATGGTTTTTATAGACTAATTTTTTTTAGTACATCTATTTTATTCTATTTTAG
CCTCTAAATTAAGAAACTAAACTCTATTTTAGTTTTTTTTATTTAATAATTTAGATATAAAAT
AGAATAAAATAAAGTGACTAAAAATTAAACAAATACCCTTTAAGAAATTAAAAAACTAAGGAA
ACATTTTTCTTGTTTCGAGTAGATAATGCCAGCCTGTAAACGCCCTCGACT**GACGCTTCGAAT**
GACGCACATGCCATCCATAGCAAGCCCAGCCCAACCCAACCCAACCCAACCCACCCAGTGCAG
CCAACTGGCAAATAGTCTCCACACCCCGGCACTATCACCGTGAGTTGTCCGCACCACCGCACGT
CTCGCAGCCAAAAAAGAAAGAAAAAAGAAAAAGAAAAACAGCAGGTGGGTCCGG
GTCGTGGGGGCCGAAAAGCGAGGAGGATCGCT**GACGCTTCGAATGACGCACATGCCCGAGCAG**
CGACGAGGCCGGCCCTCCCTCCGCTTCCAAAGAAACGCCCCCATCAATTtatatataaggaag
ttcattttcatttggagcccccaaccctaccaccaccaccaccaccacctccttcacacaa
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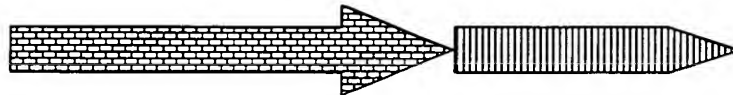
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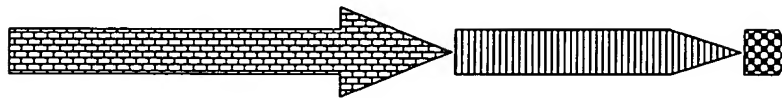
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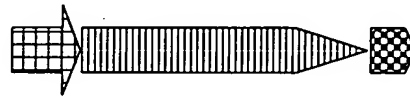
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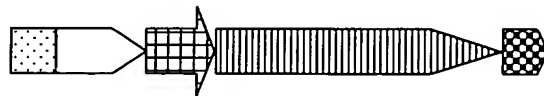
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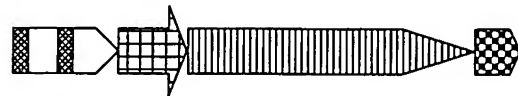
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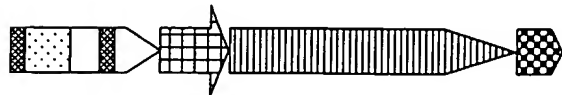
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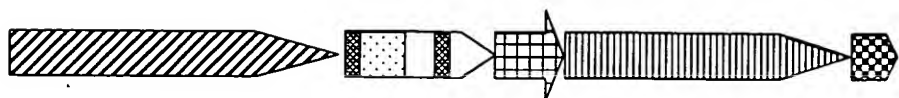
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G



H



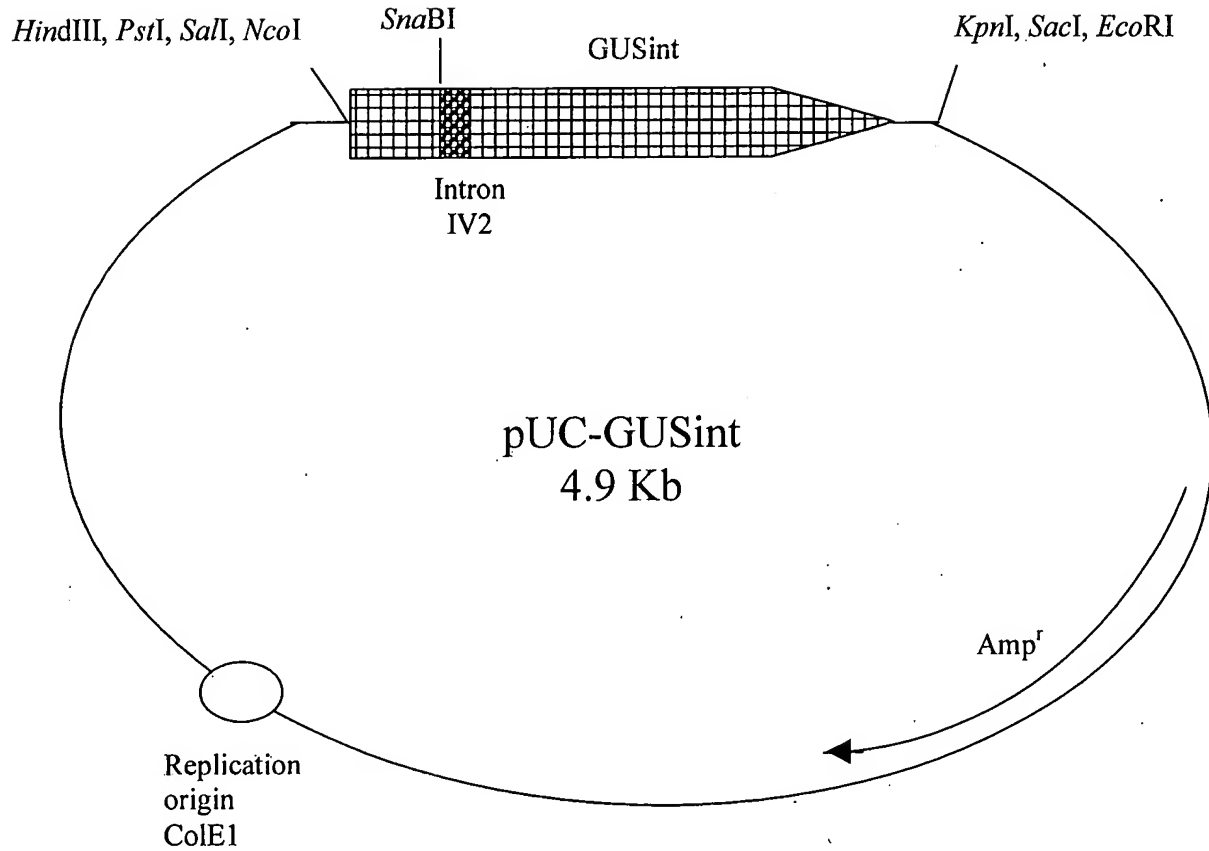
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Figure 8.

CTCGAGATACATATTAAGAGTATGGACAGACATTTCTTTAACAACTCCATTTGTATTACTCCA
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CACCATGTATCCCAAGATGCTTTTTTAATTtatatatataggaagttcattttcatttggagcccc
ccaaccctACCACCACCACCACCACCTCCTCCTTCACACAACACACACAACAGATCTCC
CCCATCCTCCCTCCCGTCGCGCCGCGCAACACCTGgtaagatggctgtgcgctcagatatatat
agtgatatgcactacaaagatcataactagaccgcccgcctccccccccccccctctctaccttc
tctcttttctttctcgcgttttttttttccgtctcgtctcgatctttggccttggtagtttggggg
cgagaggcggcttcgtcgcccagatcgggtgcgcgcttttttatttggaggggcgggatctcgcg
gctgggtctcggcgtgcggccggattctcgcggggaatggggctctcggatgtggatctgatcc
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TAGAGCTC Nco I
Xba I Sac I

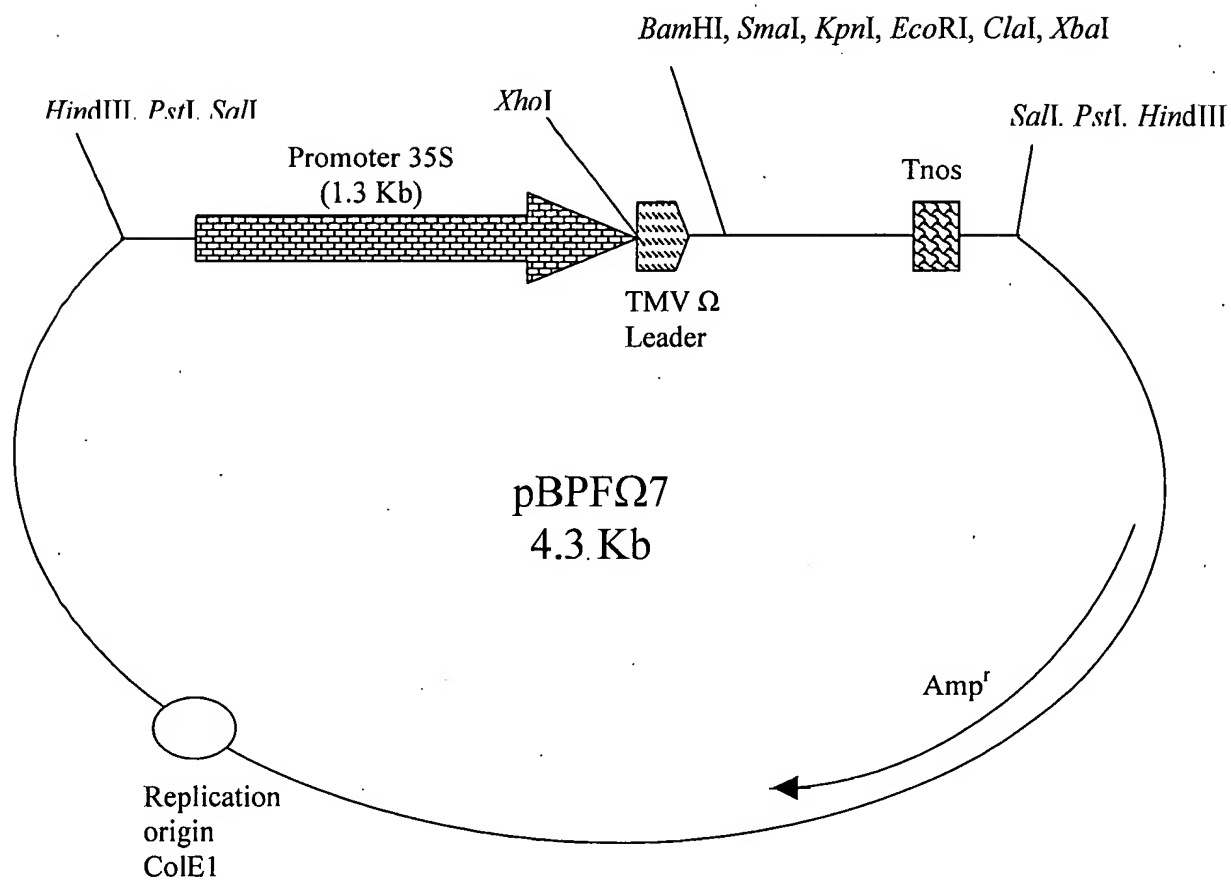
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Figure 9.



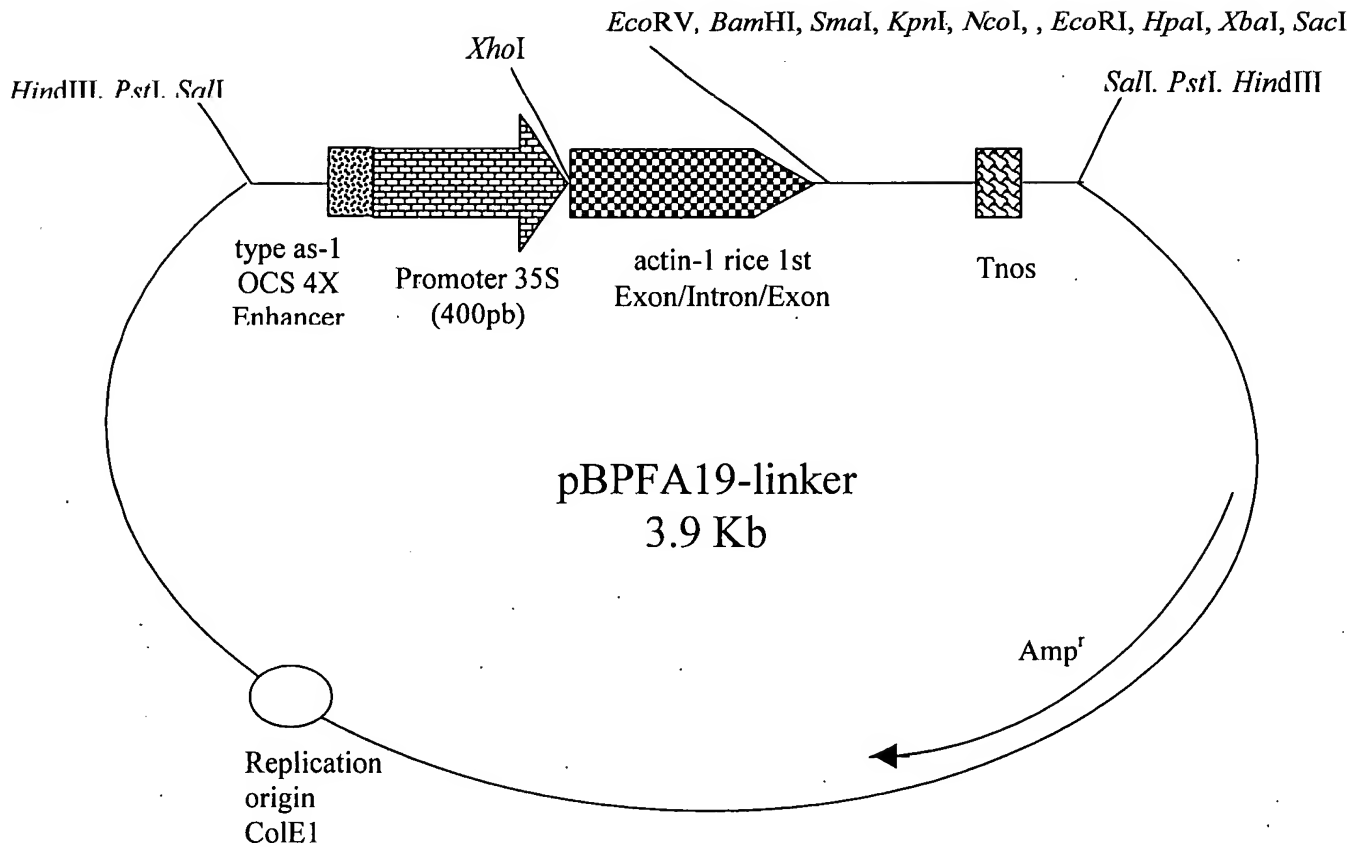
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Figure 10.



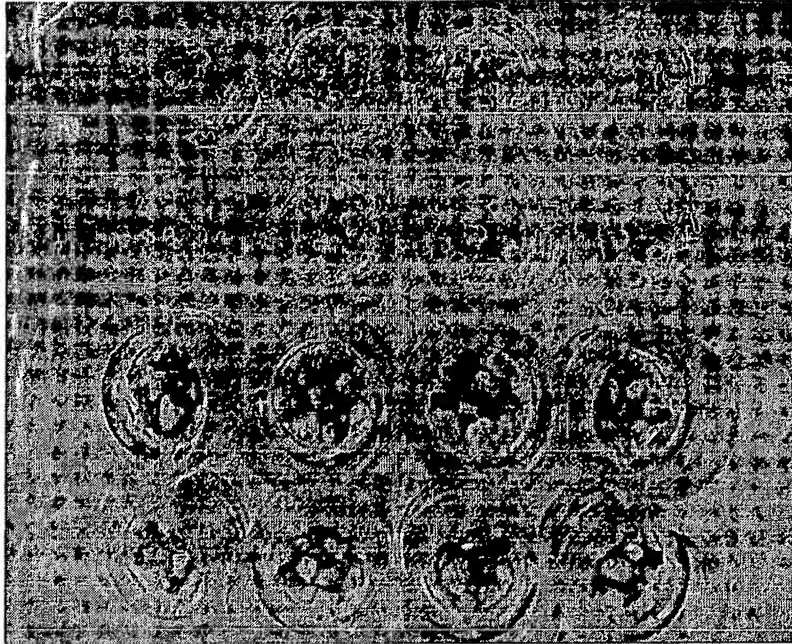
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Figure 11.



10/539476

Figure 12.



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pBPF Ω -GUSint

pA19ARTEGUSint

pA19ARTGUSint